

Claims

1. Articulated suspension device, in particular for
monitor support systems, comprising a suspension
5 part (1) having an end (1'") with a part-spherical
external profile, a connecting part (5) suspended on
the suspension part (1), a sliding part disposed
between the suspension part (1) and the connecting
part (5) and enabling a sliding rotational and tilting
10 movement of the connecting part (5) relative to the
suspension part (1),
characterized in
that the sliding part is an annular sliding band (7),
which has a constant thickness and the internal profile
15 of which corresponds to the spherical external profile
of the end (1'") of the suspension part (1), and
that the connecting part (5) has an end (5'") with a
part-spherical internal profile, which corresponds to a
spherical external profile of the annular sliding
20 band (7).
2. Articulated suspension device according to claim 1,
characterized in
that the suspension part (1) outside of the part-
25 spherical end (1'") has a cylindrical shape and the
connecting part outside of its part-spherical end has a
hollow cylindrical shape.
3. Articulated suspension device according to claim 1
30 or 2,
characterized in
that the suspension of the connecting part (5) on the
suspension part (1) is effected by supporting the

annular sliding band (7), which is fastened to the spherical end (5'') of the connecting part (5), on the spherical end (1'") of the suspension part (1).

- 5 4. Articulated suspension device according to one of claims 1 to 3,

characterized in

that the articulated suspension in three degrees of freedom is effected by a rotational and tilting
10 movement of the annular sliding band (7) along the spherically curved surface of the end (1'") of the suspension part (1).

- 15 5. Articulated suspension device according to one of claims 1 to 4,

characterized in

that for fastening a support system to the connecting part (5) below the spherical end (5'') thereof a plurality of bores (6) are provided.

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6. Articulated suspension device according to one of claims 1 to 5,

characterized in

that for covering a slot aperture (8) produced by the articulated suspension between the suspension part (1)
25 and the connecting part (5) an enclosure (9) is provided, which covers the slot aperture (8) in a close-fitting manner and so as to comprehend all joint-position-dependent slot aperture widths.

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7. Articulated suspension device according to claim 6,

characterized in

that the enclosure (9) comprises a hollow cylindrical

portion (9') and an adjoining hollow spherical-segment-shaped portion (9'') of an, in both portions, constant and thin wall thickness, and the internal diameter of the hollow cylindrical portion (9') corresponds to the minimum external diameter of the suspension part (1), and the internal diameter of the hollow spherical-segment-shaped portion (9'') corresponds to the, by a specific amount, enlarged spherically profiled external diameter of the connecting part (5).

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8. Articulated suspension device according to claim 6 or 7,

characterized in

that the enclosure (9) in the hollow cylindrical portion (9') is fastened by at least one connection (10) to the suspension part (1) in the region of the minimum external diameter thereof.

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9. Articulated suspension device according to claim 7,

characterized in

that a restriction of the range of rotation of the connecting part (5) relative to the angular position of the suspension part (1) occurs.

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- 25 10. Articulated suspension device according to claim 9,

characterized in

that on the inner side of the hollow spherical-segment-shaped portion (9'') of the enclosure a rib (11) is fastened, the height of which is smaller than the clearance between enclosure (9) and the connecting part (5), and at the same time on the outer sides of the connecting part (5) in the region of the spherical end (5'') thereof a further rib (12) is fastened, which

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is likewise smaller than the clearance between enclosure (9) and connecting part (5), wherein the ribs (11, 12) mutually block after a 360° relative movement of the connecting part (5) relative to the suspension part (1).